OCPP 1.6
Full Certificate

OCPP 1.6 Fully Certified

Certificate holder:	Sicon Chat Union Electric Co., Ltd
Certificate number:	OCA.0016.0359.CS
Product type:	Charging Station
Product designation:	EVMS OCPP Software version: 1.3.0 Hardware feature set as stated below
Certification date:	May 24, 2023

This certificate attests that the above mentioned product successfully completed certification testing in conformance with the reference specification OCPP 1.6 – Edition 2 with OCPP 1.6 Errata sheet (v4.0 Release, 2019-10-23). The optional features of the protocol are also covered by this certification.

Test cases have been performed as described in the test report referred to below. The results and remarks can be found in the complete test report.

Applied tests	Performed by / on	Document evidence
Conformance testing according to the test specification referenced by the test report	*DNV Singapore Pte. Ltd., May 24, 2023*	*DNV_OCPP 1.6 Test Report_CP_SCU*

The abstract of test report in the Annex is an integral part of this certificate. This certificate is valid from the Certification Date specified above. This certificate is only applicable to the product designation described above and permits the use of the OCPP logo as laid down in the OCA certification logo license agreement on this product only.

This certificate shall neither be tendered nor accepted by any party as a guarantee covering quality of a product which includes OCPP. The Open Charge Alliance, and/or its agents, including, inter-alia, test laboratories, disclaim liability for any damages or losses incurred by the certified company or by any other party resulting from reliance on the results of OCPP certification testing.

For the Open Charge Alliance:

ONOPH CARON
Chairman

Abstract of test report

Test Result Summary

<table>
<tr><td colspan="2">**Test Report OCPP 1.6 Certification**</td></tr>
<tr><td>**Test laboratory:**</td><td>**DNV Singapore Pte. Ltd.**</td></tr>
<tr><td>**Location:**</td><td>Shijiazhuang, Hebei, China</td></tr>
<tr><td>**Test Report Reference:**</td><td>DNV_OCPP1.6_TEST_CP_20230524</td></tr>
<tr><td>**Vendor name:**</td><td>**Sicon Chat Union Electric Co., Ltd**</td></tr>
<tr><td>**Device Under Test:**</td><td>Charging Station</td></tr>
<tr><td>**Communication:**</td><td>JSON</td></tr>
<tr><td>**OCPP Software version:**</td><td>1.3.0</td></tr>
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Test Result Summary for the certified functionalities		
Functionalities	**OCPP 1.6 Certification Test Results**	**Description**
Core	Pass	Basic Charging Station functionality for booting, authorization (incl. cache if available), configuration, transactions, remote control.
Optional features		
Firmware Management	Pass	Support for (remote) firmware update management and diagnostic log file download.
Smart Charging	Pass	Support for Smart Charging (all profile types, including stacking), to control charging.
Reservation	Pass	Support for reservation of a connector of a Charging Station.
Local Authorization List Management	Pass	Features to manage a local list in the charging station containing authorization data for whitelisting users.
Remote Trigger	Pass	Support for remotely triggering messages that originate from a Charging Station. This can be used for resending messages or for getting the latest information from the Charging Station.

Performance Measurement Results

Name	PICS value	Measured value	Description
OCPP triggered function timeout:	15 seconds	0:00:11	The response time for when waiting for an OCPP function with its corresponding request message. (Firmware update, Diagnostics and Reboot are excluded from this measurement.)
OCPP response timeout:	5 seconds	0:00:04	The response time for when waiting for an OCPP response message.
Response time RemoteStartTransaction:	1 second	0:00:00	The response time for the RemoteStartTransaction message.

Test Configuration

Vendor	**Sicon Chat Union Electric Co., Ltd**
DUT / SUT	Charge Point
Communication	JSON
Type	EVMS
OCPP Software version	1.3.0
OCTT version	OCTT 1.6 v 1.4.3

Hardware feature set	
Feature	**Configuration**
Socket(s) / connector(s)	Multiple
Fixed cable	Yes
Communication technology	WiFi / ethernet / mobile network
RFID readers	single

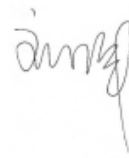| Non-OCPP Charge Point Configuration	
Configuration key	**Value**
<>	<>

All other relevant limits and non-OCPP settings that are relevant for the test laboratory and for the correct functioning of the CSMS:	
Limit / setting	**Value**
Device supports sending milliseconds in timestamps.	Yes

OCPP Charging Station Configuration	
Configuration key	**Value**
AllowOfflineTxForUnknownId	TRUE
AuthorizationCacheEnabled	TRUE
AuthorizeRemoteTxRequests	TRUE
BlinkRepeat	0
ClockAlignedDataInterval	0
ConnectionTimeOut	60
ConnectorPhaseRotation	NotApplicable
ConnectorPhaseRotationMaxLength	0
GetConfigurationMaxKeys	45
HeartbeatInterval	30
LightIntensity	0
LocalAuthorizeOffline	TRUE
LocalPreAuthorize	TRUE
MaxEnergyOnInvalidId	0
MessageTimeout	-
MeterValuesAlignedData	Energy.Active.Import.Register
MeterValuesAlignedDataMaxLength	15
MeterValuesSampledData	Current.Import, Energy.Active.Import.Register, Power.Active.Import, SoC
MeterValuesSampledDataMaxLength	22
MeterValueSampleInterval	30
MinimumStatusDuration	0
NumberOfConnectors	2
ResetRetries	3
StopTransactionMaxMeterValues	-
StopTransactionOnEVSideDisconnect	TRUE
StopTransactionOnInvalidId	TRUE
StopTxnAlignedData	""
StopTxnAlignedDataMaxLength	0
StopTxnSampledData	""
StopTxnSampledDataMaxLength	22
SupportedFeatureProfiles	Core,FirmwareManagement,LocalAuthListManagement,Reservation,SmartCharging,RemoteTrigger
SupportedFeatureProfilesMaxLength	6
TransactionMessageAttempts	3
TransactionMessageRetryInterval	60
UnlockConnectorOnEVSideDisconnect	FALSE
WebSocketPingInterval	5
LocalAuthListEnabled	TRUE
LocalAuthListMaxLength	100
SendLocalListMaxLength	20
ReserveConnectorZeroSupported	TRUE
ChargeProfileMaxStackLevel	10
ChargingScheduleAllowedChargingRateUnit	Current,Power
ChargingScheduleMaxPeriods	30
ConnectorSwitch3to1PhaseSupported	FALSE
MaxChargingProfilesInstalled	50
SupportedFileTransferProtocols	ftp, ftps, http, https

Statement of Approval

Vendor		Date: 2023.05.24	
Name	Liu Ya Feng	Signature	
Company	Sicon Chat Union Electric Co., Ltd		
Department	e-Mobility		
Position	CTO		
Location	Shijiazhuang, Hebei, China		

Test laboratory		Date: 2023.05.24	
Name	Sukoco	Signature	
Company	DNV Singapore Pte. Ltd.		
Department	Energy Systems		
Position	Senior Consultant		
Location	Singapore		